Attorney's Docket No. 047440/273

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/762,078 Confirmation No: 4620 Applicant(s): Klass P. Hardeman Group Art Unit: 1623

Filed: January 21, 2004 Examiner: Lawrence E. Crane

Title: ALKYL-LINKED NUCLEOTIDE COMPOSITIONS

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

RULE 37 C.F.R. §1.132 DECLARATION of Dr. Steven E. Hall

I, Dr. Steven E. Hall, do hereby declare as follows:

- 1. I am skilled in the art of the field of the invention described and claimed in the patent application referenced above. I received a Ph.D. in organic chemistry from the Massachusetts Institute of Technology and am currently Senior Vice President Research and Development at Serenex, Inc., the assignee of the subject patent application. I formerly was Vice President and Director of Sphinx Laboratories, Lilly Research Laboratories. I also have held senior management positions in medicinal chemistry at Bristol-Myers Squibb. A copy of my curriculum vitae is attached to this declaration.
- 2. I have read and understood the Office Action in the above-referenced patent application dated September 27, 2006. I also have read and understand the specification and currently pending claims of the subject application.

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- 3. The Office Action states, in part, that the specification allegedly does not reasonably provide enablement to the method of testing encompassed by claim 31. See Office Action, at pages 2-3. For the reasons described below, I respectfully disagree.
- 4. Serenex, Inc., the assignee of the subject patent application, based on the teachings and disclosure of the subject patent application, currently uses embodiments of the nucleotide affinity medium disclosed and claimed in the patent application to screen for target compounds, for example, in drug discovery applications.
- 5. By way of example, as described in more detail herein below and as illustrated by the data presented in **Appendix A**, which is attached hereto, several known chemical compounds were screened against the purine-binding proteome of cultured human Jurkat cells using a D3 resin, which corresponds to a nucleotide affinity medium disclosed in Example 45 of the subject application.
- 6. In this example, cultured human Jurkat cells were grown to density (2 x 10⁹cells/liter), harvested, pelleted by centrifugation and flash frozen in liquid nitrogen. The frozen cell pellet was thawed, homogenized in buffer, and sonicated to lyse the cells. The cell debris was removed by centrifugation and the resulting supernatant was mixed with D3 resin on ice with shaking. The resin was then collected in a gravity feed column, washed to remove non-specific binding, divided into smaller columns and eluted with the compounds identified in Scheme A1 of Appendix A. The compound/protein elutions were resolved by SDS-PAGE and visualized by silver staining.
- 7. As shown in Figure A1 of Appendix A, the SDS-PAGE gel shows several protein targets eluted with each compound. 5% DMSO is shown as a negative control. The primary targets for these compounds are listed in Table A1 and highlighted with the corresponding

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arrows on the gel image. The additional targets identified in the assay are also listed in Table A1.

- 8. For the above reasons, based on my education and scientific experience, I believe that the specification of the subject application enables one of ordinary skill in the art to use the presently claimed nucleotide affinity media to screen a test compound as set forth in the present claims.
- 9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dr. Steven E. Hall

Senior Vice President Research and Development

Serenex, Inc.

Durham, North Carolina

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APPENDIX A

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Scheme A1. Representative known chemical compounds screened against the purine-binding proteome of cultured human Jurkat cells using a D3 resin.

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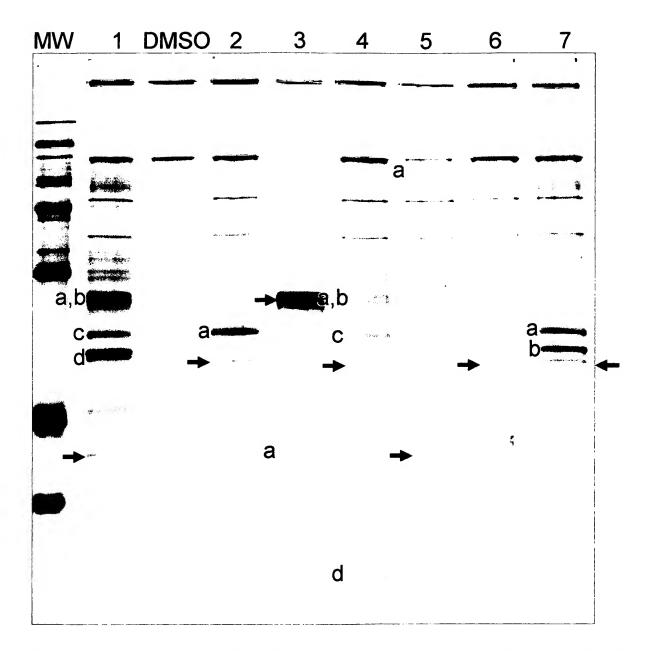


Figure A1. Representative SDS-PAGE gel showing several protein targets eluted with each compound shown in Scheme A1.

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Table A1. Targets Identified in Assay Using D3 Resin.		
Compound	Expected Targets	Additional Targets
1. Purvalanol A	Cdk1/Cdk2	a. Yes
	İ	b. Lck
		c. CSK
		d. MK01
2. p38 Inhibitor I	P38 MAPK	a. CSK
3. Damnacanthal	Lck	a. Cdk1/Cdk2
4. SB 203580	P38 MAPK	a. Yes
		b. Lck
 		c. CSK
	d	d. DHFR
5. Indirubin-3-monoxime	Cdk1/Cdk2	a. P90 Rsk
6. PD 169316	P38 MAPK	
7. SB 220025	P38 MAPK	a. CSK b. MK01

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composite family Compton

family. 4. Composite. Archit. Of, relating to, or being in the Composite order. -n. 1. A structure or an entity made up of distinct components. See Syns at mixture. 2. A complex material in which two or more distinct, structurally complementary substances combine to produce structural or functional properties not present in any individual component. 3. Bot. A

composite plant. [Fr. < OFr. < Lat. compositus, p.part. of componere, to put together. See componere, to put together. See componere.] — com*pos*/tte*/p adv. — com*pos*/tte*ness n. composite family n. The largest family of flowering plants, the Compositae (Asteraceae), characterized by many small flowers arranged in a head looking like a single flower and subtended by an involuce of bracts. tended by an involucre of bracts.

composite number n. Math. An integer exactly divisible by at

least one number other than itself or 1. Composite order n. Archit. A Roman capital formed by su-

perimposing Ionic volutes on a Corinthian capital:
com·po·si·tion (köm/po-zish/ən) n. 1.a. The combining of
distinct parts or elements to form a whole. b. The manner in
which such parts are combined or related. c. General makeup: the changing composition of the electorate. d. The result or product of composing; a mixture or compound. 2. Arrangement of artistic parts so as to form a unified whole. 3.a. The art or act of composing a musical or literary work. b. A work of music, literature, or art, or its structure or organization.

4. A short essay, esp. one written as an academic exercise.

5. Law. A settlement whereby the creditors of a debtor about to enter bankruptcy agree to the discharge of their respective claims on receipt of a lesser amount than that actually owed. 6. Ling. The formation of compounds from separate words. 7. Print. Typesetting. [ME composicioun < OFr. composition Lat. compositio, composition < compositus, p.part. of componere, to put together. See component.] — com/po·si/-

tion al adj. — com'po sl'tion al 'y adv.
com pos l'tive (kəm-pöz'i-tiv) adj. Synthetic; compounded.
com pos l'tor (kəm-pöz'i-tər) n. Print. One that sets written material into type; a typesetter. [ME compositur, one who composes, settler of disputes < AN compositour < Lat., writer, compiler < componere, composir, to put together. See

COMPONENT.] — com·pos'l·to'rl·al (-tôr'ē-al, -tôr'-) adj.

compos men·tls (měn'tis) adj. Of sound mind; sane. [Lat.:

compos, having mastery of + mentis, genitive of mēns, mind.]
compost (kŏm'pōst') n. 1. A mixture of decaying organic matter used to fertilize soil. 2. A composition; a mixture. - tr.v. -post ed. -post ing. -posts. 1. To fertilize with a mixture of decaying organic matter. 2. To convert (vegetable matter) to compost. [ME composte < OFr., mixture, compost < Lat. compositum, mixture < neut. p. part. of componere, to put together. See COMPONENT.]

com·po·sure (kəm-po/zhər) n. A calm or tranquil state; of

mind; self-possession. [< compose]
com-pote (kom/pot) n. 1. Fruit stewed or cooked in syrup.
2. A long-stemmed dish used for holding fruit, nuts, or candy.

2. A long-stemmed dish used for holding truit, nuts, or candy. [Fr. < OFr. composte, mixture < Lat. composita, fem. p.part. of componere, to put together. See component.] compound (köm-pound*, kam-, köm*pound*) v. -pound*ed, -pound*ing, -pounds. - tr. 1. To combine so as to form a whole; mix. 2. To produce or create by combining two or more ingredients or parts. 3. To settle (a debt, for example) by agreeing on an amount less than the claim; adjust 4. To component.</p> more ingredients or parts. 3. 10 settle (a dept, for example) by agreeing on an amount less than the claim; adjust. 4. To compute (interest) on the principal and accrued interest. 5. To add to; increase. — intr. 1. To form a compound. 2. To come to terms; agree. — adj., (kom'pound', kom-pound', kom-).

1. Consisting of two or more substances, ingredients, elements, or parts. 2. Bot. Composed of more than one part. — n. (kom'pound'). 1. A combination of two or more elements. ments or parts. See Syns at mixture. 2. Ling. A word that consists either of two or more elements that are independent words, such as loudspeaker, or of specially modified combin-ing forms of words, such as Greek philosophia, from philo, "loving," and sophia, "wisdom." 3. Chem. A substance con-sisting of atoms or ions of two or more different elements in definite proportions that cannot be separated by physical means. 4. Bot. a. A leaf whose blade is divided into two or more distinct leaflets. b. A pistil composed of two or more united carpels. [Alteration of ME compounen < OFr. comunited carpets. [Aiteration of Me. compounen < Ort. com-ponne, compondne, to put together < Lat. componene. See component.] — com pound'a ble adj. — com pound'er n. com pound² (kóm pound') n. 1. A building or buildings set off and enclosed by a barrier. 2. An enclosed area used for prisoners of war. [Alteration of Malay kampong, village.] com pound-com plex sentence (kom pound-kom pleks) n.

A sentence consisting of at least two coordinate independent clauses and one or more dependent clauses.

compound eye n. The eye of most insects and some crusta-ceans, which is composed of many light-sensitive elements,

each forming a portion of an image.

compound fraction n. Math. See complex fraction.

compound fracture n. A fracture in which broken bone fragments lacerate soft tissue and protrude through an open wound in the skin. compound interest n. Interest computed on the accumulated

unpaid interest as well as on the original pri अपूर्व compound lens n. See lens 2. compound microscope n. A microscope cons jective and an eyepiece at opposite ends of an compound number n. Math. A quantity that terms of two or more different units, such 10 gami ounces or 3 feet 4 inches.

compound sentence n. A sentence of two organisms

ompetroleler (kən-trō/lər) n. \

non-pul-sion (kəm-pul/shən) n

h The state of being compelled.

Bat, regardless of the rationality off. < LLat. compulsio, con

p.part. of compellere, to compe com-pul-sive (kom-pul-siv) ad;

com-pui-sive (ksin-pui-siv) adi is compel 2. Psychol. Caused or a t obsession. — n. A person with l 'a compulsion. — com-pui/siv is ess. com/pui-siv/i-ty (kŏm/)

com·pul·so·ry (kəm-pul/sə-rē) (22. Employing or exerting corpulso-ri-ly adv. — com-pul/com-punc-tion (kəm-pungk/sh:

nearsed by a sense of guilt. 2. A
cof doubt aroused by wrongdoin
componetion < LLat. compun conscience, puncture < Lat. con

gere, to sting: com-, com- + p - com-punc'tious (-shas) adj.

com·punc tuous (saiss) adj. com·pu·ta·tion (kŏm/pyŏō·tā/ ess of computing. b. A method (computing. 3. The act of operata/tion·al adj. — com/pu·ta/ com·pute (kom-pyōōt/) v. -put

1. To determine by mathematic
2. To determine by the use of a

termine an amount or number.

Computation. [Lat. computare reckon; see peu-*.] — com · put

com·put·er (kəm-pyoo'tər) n. 1

a programmable electronic mac

operations or assembles, stores,

esses information. 2. One who com·put·er·ist (kəm-pyoo/tər-

ates a computer.
com•put•er•ize (kəm-pyoo'tə-r.
1. To furnish with a compute:

enter, process, or store (informa of computers. See Usage Note

a·ble adj. — com·put'er·i·za

com·put·er·ized axial tomogi

Tomography in which compute

sectional scans made along a sin tissue is used to construct a thi computer literacy n. The abilit software to accomplish practice

computer virus n. A computer p

Comr. abbr. Commissioner. om rade (kom rad', -rad) n. 1 interests or activities; a friend c rade. A fellow member of a gr

the other programs stored in a cor negative effect.

the Communist Party. [Fr. can

OSp. camarada, barracks com toom < LLat. camera. See CHA.
Word History: A comrade

dose, a closeness found at the e

comrade. Spanish preserved the Late Latin meaning "chamber, afive camarada, with the sense tack mates." Camarada then companion." English comrad century came from Sensish accompanion.

century, came from Spanish an towed from Spanish. The politi sociated with Communism, ha century use of the word as a title

in order to avoid such forms of which originated in France dur

first recorded in English in 188 Com-stock (kom'stok', kum

Amer. reformer notorious for books and art that he consider

Com-stock-er-y (kom/stok/>-rerange and other forms of exin the feet of the

trature and other forms of eximmorality or obscenity. [After Constock Lode, A rich vein of 1859 at Virginia City in W NY Comte (köxt), (Isldore) Augus 1857. French philosopher a — Com'tism (köm' tiz'əm) n. con' (kön) adı, in opposition od

cont (kon) adv. In opposition of

1. An argument or opinion or v holds an opposing opinion or v Lat. contrå, against. See contra con² (kön) tr.v. conned, con•ning

1. An argument or opinion ag

ÿccmii

independent clauses, often joined by a conju iunctions.

व्यक्त छ व com·pra·dor also com·pra·dore (kom/pra-between; an intermediary. 2. A native-born and certain other Asian countries formerly foreign business to help with commercial tra

prehendere, to grasp; see ghend.*.] - com'preadj. - com'pre-hend'ing-ty adv.
com-pre-hen-si-ble (köm'pri-hen/s-bel) adj.:
prehended or understood; intelligible. - com'
bli'i-ty, com'pre-hen'si-ble-ness n. - com'

com·pre·hen·sion (kom/pri-hen/shən) n.1.a. of grasping the meaning, nature, or importance standing. b. The knowledge that is acquired in 2. Capacity to include. 3. Logic. The sum of the corresponding implications inherent in a termin Med-hensioun < Lat. comprehênsio, comprehênsion & hēnsus, p.part. of comprehendere, to comprehênsion

com·pre·hen·sive (kom/pri-hen/siv) adj. 1. So lan or content as to include much: a comprehensi

or content as to include much: a comprehential flat.

2. Marked by or showing extensive understandings from the new style of the day. — com'pre hen'slve ness that from the new style of the compress (km-press) for the compression of the new style of the pressing. — n. (kom'pres') 1. Medic. A soft-pad-apple with pressing. — n. (kom'pres') 1. Medic. A soft-pad-apple with pressure to a body part to control hemorrhagging the heat, cold, moisture, or medication. 2. A machine for pressing material. [ME compresses Offi-compresse (Llat. compressare, freq. of Lat. comprimere compress to press; see per-4*]. com-pressed (kom-press!) adj. 1. Pressed together of the soft with the compressed (kom-press!) adj. 1. Pressed together of the soft with the compressed (kom-press!) adj. 1. Pressed together of the soft with the compressed at n. Air under greater than atmosphere pressed at n. Air under grea

compressed air n. Air under greater than atmospheric p sure, esp. when used to power a mechanical device of provide

sure, esp. when used to power a mechanical device operation a portable supply of oxygen.

com·press·l·ble (kəm·pres/ə-bəl) adj. That: canbe on pressed. — com·press'l·bll/l·ty, com·press/l·ble; less a com·press slon (kəm·presh/ən) n. l.a. The act or ippross of compressing. b. The state of being compressed. 2.a. The process of the compressed by the compression ways of the compression ways compression wave n. A wave propagated by means of the compression of a fluid, as a sound wave.

com-pres-sive (kəm-pres/iv) adj. Serving to or able to one press. — com-pres/sive iy adv. com-pres-sor (kəm-pres/ər) n. One that compresses en

machine used to compress gases.

com*prise (kam-priz*) tr.v. prised, -pris* ing, -pris* i. i. consist of; be composed of. 2. To include; contain 3. User Problem. To compose; constitute, [ME. comprise of the composed of the compress of the

Problem. To compose; constitute. [ME. comprises < Old compris, p.part. of comprendre, to include < Lat. comprehenders. See Comprendre, to include < Lat. comprehenders. See Comprendre of comprises the parts; the property of the whole. In strict usage: The Union comprise is states. Fifty states compose the Union. While comprise is creasingly used in place of compose, in an earlier surgimajority of the Usage Panel found this use of comprise acceptable. See Usage Note at Include. Comprendise (kom/pro-miz/n. 1.a. A settlement of differences in which each side makes concessions. b. The result such a settlement. 2. Something that combines qualities a clements of different things. 3. A concession to something that comprendise.

detrimental or univerent things. 3. A concession to some detrimental or pejorative: a moral compromise. — v. mushing, -mis+es. — tr. 1. To settle, by concessions: 2 I expose or make liable to danger, suspicion, or district 3. Obsolete. To pledge mutually. — intr. To make a compromise. [ME compromis < OFr. < Lat. compromissim, mush promise < neur. p.part. of compromitatives to promise mush. promise < neut. p.part. of compromittere, to promise

ally: com, com- + prômittere, to promise ally: com/pro-mis/er n.
com/pro-mis/er n.
compt. abbr. Compartment.
Compo-ton (kômp/tən). A city of S CA, a suburb between la Angeles and Long Beach. Pop. 90,454.
Compton, Arthur Holly. 1892–1962. Amer. physicist shared a 1927 Nobel Prize.



compote -century A d glass co tass compote made iston and Sandwich



compound eye Magnified compound eye of a green lacewing

Hawley's Condensed Chemical Dictionary

Fourteenth Edition

Revised by Richard J. Lewis, Sr.



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complement. In immunochemistry, any of a number of blood proteins that act in conjunction with antibodies to cause disintegration of invading cells. They are an essential component of immune serum.

complex compound. See coordination compound.

complexing agent. See ligand; chelate; ethylenediaminetetraacetic acid.

complex ion. An ion that has a molecular structure consisting of a central atom bonded to other atoms by coordinate covalent bonds. See coordination compound.

component. One of the minimum sets of substances required to generate the composition of all phases of a system in the absence of chemical reaction of any substances in a mixture. See constituent.

composite. A mixture or mechanical combination on a macroscale of two or more materials that are solid in the finished state, are mutually insoluble, and differ in chemical nature. The major types are (1) Laminates of paper, fabric, or wood (veneer) and a thermosetting material (resin, rubber, or adhesive); examples are tire carcasses, plywood, and electrical insulating structures. (2) Reinforced plastics, principally of glass fiber and a thermosetting resin; other types of fibers such as boron, aluminum silicate, and silicon carbide may be used.

See whiskers. (3) Cermets, which are mixtures of ceramic and metal powders, heat treated and compressed. (4) Fabrics, e.g., woven combinations of wool or cotton and a synthetic fiber. (5) Filled composites in which a bonding material, i.e., linseed oil, resin, or asphalt, is loaded with a filler in the form of flakes or small particles; examples are linoleum, glass flake-plastic mixtures for battery cases, and asphalt-gravel road-surfacing mixtures.

composting. Aerobic bacterial decomposition of solid organic wastes, both agricultural and urban, including sewage sludge. As much as 500 tons a day can be handled in the larger installations, the waste degrading quickly without external heating. Decomposition is accelerated by adding ammonium bicarbonate. The product can be used as a soil conditioner and for landfill. The waste is piled and turned frequently to provide aeration and to maintain a high temperature in the pile to destroy pathogenic organisms. The volume of composted waste is from 20 to 60% of original volume.

compound. (1) A substance composed of atoms or ions of two or more elements in chemical combination. The constituents are united by bonds or valence forces. A compound is a homogeneous entity where the elements have definite proportions by

weight and are represented by a chemical formula. A compound has characteristic properties quite different from those of its constituent elements. It is decomposed by energy in the form of a chemical reaction, heat, or electric current. Example: water is a liquid formed by chemical combination of two gases; it can be separated into hydrogen and oxygen by an electric current (electrolysis); in certain reactions it is split into its constituent ions (H, OH) (hydrolysis); it is not chemically changed by heat or cold.

See mixture; homogeneous; chemical reaction. (2) Loosely, a product formula (often proprietary) of various types, e.g., pharmaceuticals (a vegetable compound), rubber (a fast-curing compound), etc. (3) Having two sets of lenses (compound microscope).

compound 1080. Use may be restricted. See sodium fluoroacetate.

compreg. A hardwood impregnated with a phenolformaldehyde resin under heat and pressure.

compressed gas. Any material or mixture that, when enclosed in a container, has an absolute pressure exceeding 40 psi at 21.1C or, regardless of the pressure at 21.1C, has an absolute pressure greater than 104 psi(a) at 54.4C, or any flammable material having a vapor pressure greater than 40 psi abs at 37.7C (vapor pressure determined by Reid method (ASTM)). Compressed gases include liquefied petroleum gases and oxygen, nitrogen, anhydrous ammonia, acetylene, nitrous oxide, and fluorocarbon gases. Some of these are shipped in tonnage volume. For details on properties, containers, and shipping regulations, see the entries for specific gases.

compression molding. Formation of a rubber or plastic article to a desired shape, by either placing the raw mixture in a specially designed cavity or bringing it into contact with a contoured metal surface. After the material is in place, heat and pressure are supplied by a hydraulic press, the time and temperature varying with the nature of the material. For rubber products, vulcanization occurs simultaneously. Most plastic molding is now done by the injection method, which is more economically efficient.

See injection molding.

Compton effect. One of the principal processes by which high-energy electromagnetic radiation (γ-rays) interacts with or is absorbed by matter. In the Compton process the γ-ray frees an electron in matter as if the electron were unbound, dividing the momentum of the γ-ray between the ejected electron and a new γ-ray of lower energy going off in a new direction.

computational chemistry. Use of computers in organic synthesis and in chemical engineering as

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